

01680

1994/03/00

ITAC

SECRET
Not Releasable to Foreign Nationals

ATC-RA-1130-007-94

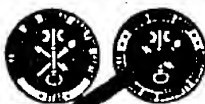
ASIA

US ARMY

INTEREST

**Chinese High Needs on
Artillery Munitions (C)**

March 1994



SECRET

NATIONAL SECURITY INFORMATION
Classified Pursuant to Executive Order 11652

United States Army Intelligence
and Security Command
United States Army Intelligence
and Threat Analysis Center

Classified by Multiple Sources
Declassify on OADR

~~SECRET~~
~~NOFORN~~

Intelligence Threat Analysis Brief

ATC-RA-1130-007-94

ICOD: 5 December 1993

SUBJECT: Chinese High Precision Artillery Munitions (U)

(U) KEY JUDGEMENTS

(U) China is modernizing its field artillery capabilities by using Artillery Delivered High Precision Munitions (ADHPM) in addition to conventional munitions.

(U) ADHPM will make the People's Liberation Army's (PLA) artillery 15 to 20 times more lethal on the battlefield.

(U) The PLA will deploy ADHPM at division level and above. ADHPM have a unique importance in future PLA combat and will increasingly dominate fire support modernization and force development over the next 10 to 20 years.

(S//NF)

(U) Homing ADHPM are either near-infrared (IR) laser-guided or terminally homing.

(S//NF)

(S//NF)

(S//NF)

5 USC 552 (b) (1)

(U) DISCUSSION

(U) Future Chinese ADHPM will include three types of Chinese ordnance: homing, sensor-fused, and modified trajectory.

~~SECRET~~
~~NOFORN~~

~~SECRET~~
~~NOFORN~~

UNCLASSIFIED

UNCLASSIFIED

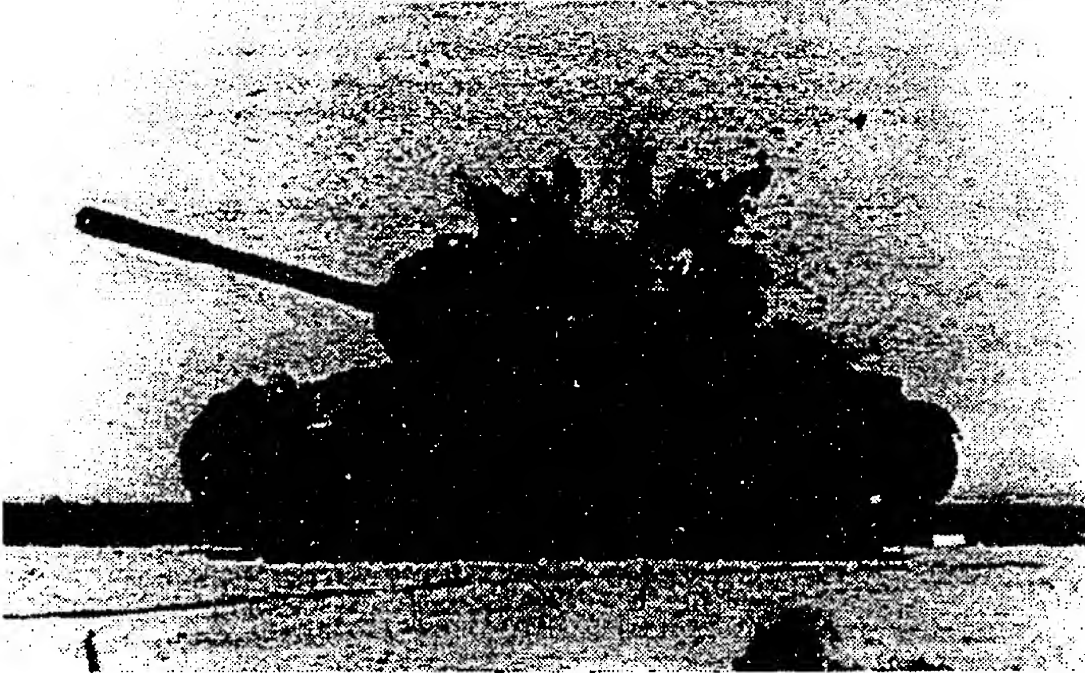


Figure 1. (U) Laser Guided Projectile fired on a M-48

UNCLASSIFIED

~~SECRET~~
~~NOFORN~~

~~SECRET~~
~~NOFORN~~

[REDACTED]

(U) DEPLOYMENTS and
PRODUCTION

(U) ADHPM are currently available in limited numbers and will be used as a combat multiplier in support of the main effort. They will initially be deployed and controlled at the division level or higher. Once the main effort is identified they will be released to the brigade level or below. ADHPM are short range (less than 30 km) and are designed to engage armored vehicles in tactical formations. These factors will mean that they will be employed (targeting, fire control, post strike assessment) by artillery commanders or fire support coordinators operating at maneuver battalion or regiment/brigade level. Decentralized employment requires the commander's guidance and targeting guidelines established in advance.

(U) FORCE DEVELOPMENT
REQUIREMENTS

(U) Allocation of Chinese ADHPM will probably be made to sectors with the highest probability of hostilities--India or Vietnam. Targeting will be limited to key installations within laser target designator (LTD) line of sight and critical terrain features that will foster employment. These include Command Posts, bridges, fire


~~SECRET~~
~~NOFORN~~

4

~~SECRET~~
~~NOFORN~~

support coordination centers, chokepoints, and bunkers. ADHPM will be employed in conjunction with hidden or scatterable minefields, so that target arrays can be engaged at a halt or forced to move through the minefield by the destructiveness of ADHPM fires. Other types of field artillery will be constrained in the sectors where laser or IR homing munitions are employed. This will reduce the chance of explosion-generated dust and smoke interfering with the optical paths or the laser or IR energy.

(S/NF)



(U) LIMITATIONS

(U) Homing and sensor-fused ADHPM have a limited capability because they are target-type munitions and are impaired by smoke, fog, and dust. Additionally, homing ADHPM require a LTD. The PLA's goal is to eliminate the LTD and transition to a fire and forget capability. The Modified Trajectory ADHPM are

the exception to the target type munitions, specifically because their sensors target a location or grid coordinate, are less costly, and will work in smoke, fog and dust. ADHPM are also limited by their high cost of production. ADHPM cost from 20 to 50 percent (for Modified trajectory) to 100 times (for terminally homing) more than conventional projectiles. However, the reduced logistical requirement and the smaller quantity needed to accomplish a mission promote some cost reduction.

(U) CONCLUSION

(U) The PLA artillery units are modernizing their forces by deploying ADHPM in addition to conventional munitions to become more technologically sophisticated. ADHPM greatly reduce the logistical burden while operating many times more effectively than conventional munitions. Therefore, Chinese ADHPM will be the preferred weapon of choice in many cases for the PLA because of their precision and lethality in a conventional battlefield environment. ADHPM capabilities offer an economic advantage by providing for foreign sales opportunities, and will keep the Chinese artillery competitive on the battlefield into the 21st century.

(U) POC for this report is Susan Young, Military

~~SECRET~~
~~NOFORN~~

5 USC 552 (b) (1)

~~UNCLASSIFIED~~

~~SECRET~~
~~NOFORN~~

Capabilities Branch, Asia
Americas Division, RAM, ITAC
(202-479-1821).

(U) Comments on the content and use of this publication should be addressed to Commander, US Army and Threat Analysis Center, ATTN: IAITAC-00 (Susan Young), Building 213, Washington Navy Yard, Washington DC 20374-5085. Requests for copies of this document or for changes in distribution requirements should be coordinated as directed in AR 381-19, Intelligence Dissemination and Production Support, February 1988.

(U) Army Requirements addressed in this product include DAMI-FIT requirement 92-182 and TRADOC Threat Assessments TRADOC 91-02. This product supports the Global Security Forecast (GSF) and the Land Threat Environment Projection (LTEP).

Enclosure

Distribution:
See Attached List

UNCLASSIFIED

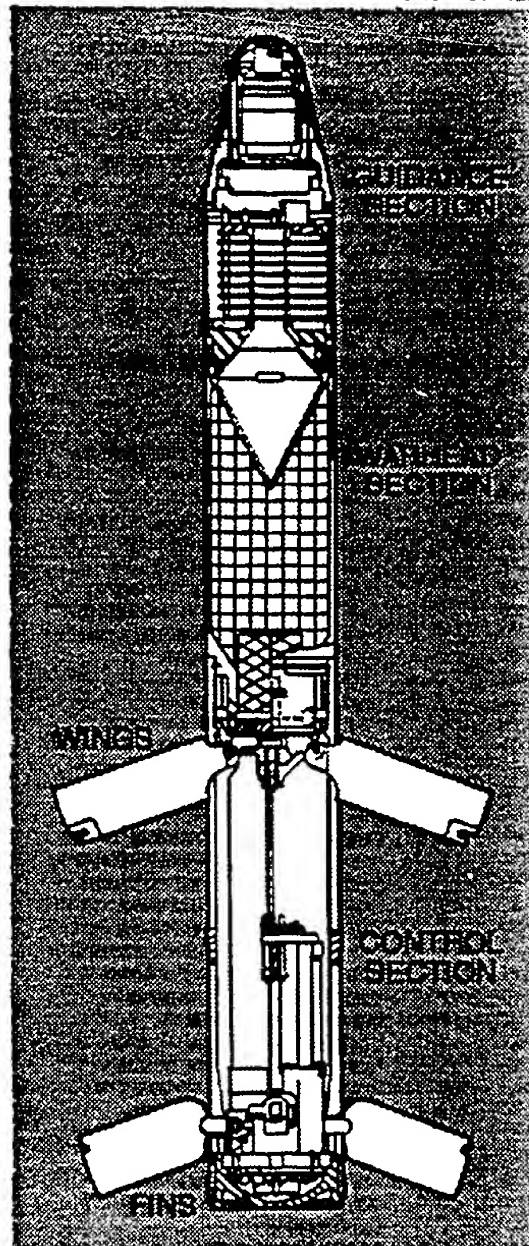


Figure 2. (U) SAL-P Schematic

~~SECRET~~
~~NOFORN~~

~~UNCLASSIFIED~~

Distribution List (U)

(This list is UNCLASSIFIED)

(Chinese High Precision Artillery Munitions)

Distribution Direct to Recipient (162 copies)

QJST	QTY	AGENCY	QJST	QTY	AGENCY
A123	1	OSD/DASD/LIC	E100	75	ACC 480 AIG/IMPND
A151	1	OSD/DDOR + E (P + R)/IDA	E104	1	547 ATS/INOPL
A305	1	JSOC	E281	1	AFOTEC/INS
A349	1	SOIC	E303	1	HQ AFISA/INAML
B163	1	DIA/DTI-58	E401	1	HQ AFMC/IN
B170	1	DIA/DTI-582	F018	1	21 AF/IN
B171	1	DIA/DTI-581	K010	1	USFK
B172	1	DIA/DTI-583	K302	1	COMUSARPAC
B250	1	DIA/DPS-3C	K303	1	18TH ABW
B367	1	DIA/DIR-40	K320	1	USARJAPAN
B508	1	DIA/DIU-3 CI ANALYSIS DIV	K344	1	6TH INF DIV (L)
B675	1	DIA/DIU-581	K601	1	FIRSTMAJ
B676	1	DIA/DIU-582	K730	1	AIRTEVRON 5
B737	2	DIA/DSP-2A (LIB)	L157	1	384 BWM/IN
C001	1	UNDER SECRETARY OF THE ARMY	L200	1	STRATJIC/DOAP
C003	1	DUSA (OPERATIONS)	N005	1	USCINCSOC
C015	1	CHIEF OF STAFF USA	N010	1	HQ AFSOC
C045	1	USA INSCOM (INTEL OPNS CENTER)	N025	1	CDR USASOC(A)AOIN-10T
C052	1	NSDA CHIEF OF ENGINEERS	N105	3	1ST MI CO 1ST SFGA
C056	1	USA CORPS OF ENGINEERS	N505	1	193 SPECOPSGP/IN
C066	1	USA INSCOM (COUNTER-INTEL)	0043	1	AFMIC
C085	1	USA MATERIAL SYSTEMS ANALYSIS	0592	3	FSTC-MLB LIB SERVICES 2
C240	1	USA TECHNICAL CONTROL ANAL ELE	W115	1	2D ACR (L)
C309	1	500TH MIL INTEL BDE	W900	1	US FORCES COMMAND
C445	1	703RD MIL INTEL BDE	W920	1	AF-TCA
C461	2	USA INFANTRY CENTER			
C464	1	USA MEDICAL CENTER + SCHOOL			
C465	1	US MILITARY ACADEMY-WEST POINT			
C500	1	USA TRAINING + DOCTRINE CMD			
C512	1	USA MATERIAL COMMAND (MGS)			
C513	1	USA ARMAMENT RES DEV+ENGR CTR			
C521	1	USA ELECTRONIC PROVING GROUND			
C532	1	USA RESEARCH LABORATORY (USMR)			
C535	1	USA AVIATION SYSTEMS COMMAND			
C545	1	USA ARMAMENT MUNITIONS+CHL CMD			
C550	1	COMMUNICATIONS ELECTRONICS CMD			
C569	1	USA BELVOIR RES DIV + ENGR CTR			
C590	1	USA TANK-AUTOMOTIVE COMMAND			
C610	2	USA MISSILE INTEL COMMAND			
C632	1	USA CHEMICAL CENTER			
C633	2	USA ORDNANCE CENTER + SCHOOL			
C639	1	USA FIELD ARTILLERY SCHOOL			
C646	1	USA COMBINED ARMS COMBAT CTR			
C683	2	USA INTEL CENTER + SCHOOL			
C697	1	USA TEST + EVALUATION COMMAND			
C752	1	NSDA DAMI HOD SUPPORT DIV			
C756	1	MIL INTEL BN (SECURITY)9020 MI			
C763	1	NSDA DAMI C, FRGM INTEL DIR			
D007	1	COMDISCOM			
D028	1	NAVAIRWARCENACDIV			
D424	1	NAVAIRWARCENACDIV(IND)			
D700	1	CG USMC INTELLIGENCE CENTER			
D991	1	FITCPAC			
E018	1	HQ AFISA/CCES (RAND-C)			

B. Internals (20 copies)

IAITAC-DD 1
IAITAC-OD 1
IAITAC-PIL 8
IAITAC-RA 10

TOTAL DISTRIBUTION 182
STOCK 18
TOTAL PRINTING 200